

**S3 Fig.:** Effects of maternal DEX-treatment on receptor and transporter expression in total brains as well as brain endothelial fractions of PN10 pups. Data are presented as means  $\pm$  SEM; for mRNA data: n = 5-6 biological samples, at PN10 one brain represented one biological sample; for western blotting: n = 6, at PN10 one brain represented one biological sample. Biological samples were collected from at least three different litters; \$: p<0.05 (two-tailed Student's t-test). GR = glucocorticoid receptor; NR1 = NR1 subunit of N-methyl-D-aspartate receptor; Abcb1a = ABC-transporter b1a (=P-glycoprotein); Abcg2 = ABC-transporter g2 (=bcrp); Abcc4 = ABC-transporter c4 (=Mrp4); Glut1 = glucose transporter 1 (=Slc2a1), Mct1 = monocarboxylic acid transporter 1 (=Slc16a1).

Postnatal day 10

Total brain – mRNA expression				
target	1x NaCl	1x DEX	3x NaCl	3x DEX
<b>receptors</b>				
GR	1.00 $\pm$ 0.03	0.93 $\pm$ 0.04	1.00 $\pm$ 0.02	0.71 $\pm$ 0.24
NR1	1.00 $\pm$ 0.06	1.07 $\pm$ 0.09	1.00 $\pm$ 0.03	0.75 $\pm$ 0.28
<b>transporters</b>				
Abcb1a	1.00 $\pm$ 0.02	0.92 $\pm$ 0.11	1.00 $\pm$ 0.02	0.60 $\pm$ 0.11 <sup>\$</sup>
Abcg2	1.00 $\pm$ 0.01	0.92 $\pm$ 0.02 <sup>\$</sup>	1.00 $\pm$ 0.02	0.72 $\pm$ 0.23
Abcc4	1.00 $\pm$ 0.05	1.32 $\pm$ 0.22	1.00 $\pm$ 0.03	0.65 $\pm$ 0.19
Glut1	1.00 $\pm$ 0.09	0.99 $\pm$ 0.09	1.00 $\pm$ 0.03	0.67 $\pm$ 0.19
Mct1	1.00 $\pm$ 0.001	0.96 $\pm$ 0.06	1.00 $\pm$ 0.04	0.62 $\pm$ 0.19
Total brain – protein expression				
target	1x NaCl	1x DEX	3x NaCl	3x DEX
<b>receptors</b>				
GR	1.00 $\pm$ 0.14	0.90 $\pm$ 0.16	1.00 $\pm$ 0.07	1.00 $\pm$ 0.06
NR1	1.00 $\pm$ 0.09	0.84 $\pm$ 0.07	1.00 $\pm$ 0.06	0.69 $\pm$ 0.04 <sup>\$</sup>
<b>transporters</b>				
Abcg2	1.00 $\pm$ 0.07	0.95 $\pm$ 0.16	1.00 $\pm$ 0.25	0.80 $\pm$ 0.13
Glut1	1.00 $\pm$ 0.04	0.99 $\pm$ 0.09	1.00 $\pm$ 0.06	0.75 $\pm$ 0.03 <sup>\$</sup>
Brain endothelial cells – mRNA expression				
target	1x NaCl	1x DEX	3x NaCl	3x DEX
<b>receptors</b>				
GR	1.00 $\pm$ 0.11	0.94 $\pm$ 0.15	1.00 $\pm$ 0.04	0.65 $\pm$ 0.19
NR1	1.00 $\pm$ 0.01	0.86 $\pm$ 0.13	1.00 $\pm$ 0.05	0.61 $\pm$ 0.22
<b>transporters</b>				
Abcb1a	1.00 $\pm$ 0.14	0.88 $\pm$ 0.33	1.00 $\pm$ 0.07	0.72 $\pm$ 0.26
Abcg2	1.00 $\pm$ 0.11	0.71 $\pm$ 0.09	1.00 $\pm$ 0.03	0.73 $\pm$ 0.26
Abcc4	1.00 $\pm$ 0.15	1.05 $\pm$ 0.22	1.00 $\pm$ 0.08	0.49 $\pm$ 0.14 <sup>\$</sup>
Glut1	1.00 $\pm$ 0.18	0.68 $\pm$ 0.16	1.00 $\pm$ 0.04	0.77 $\pm$ 0.27
Mct1	1.00 $\pm$ 0.14	0.73 $\pm$ 0.16	1.00 $\pm$ 0.08	0.72 $\pm$ 0.25

**western blots of total brain samples:**

